INSTRUCTIONS

Please read each of the following instructions carefully before attempting questions.

There are EIGHT questions divided in two sections and printed both in KANNADA and in ENGLISH.

Candidate has to attempt FIVE questions in all.

Question No. 1 and 5 are compulsory and out of the remaining, THREE are to be attempted choosing at least ONE question from each Section.

The number of marks carried by a question/part is indicated against it.

Answer must be written in the medium authorized in the Admission Certificate which must be stated clearly on the cover of this Question-cum-Answer (QCA) Booklet in the space provided. No marks will be given for answers written in a medium other than the authorized one.

Word limit in questions, wherever specified, should be adhered to.

Attempts of questions shall be counted in chronological order. Unless struck off, attempt of a question shall be counted even if attempted partly. Any page or portion of the page left blank in the Question-cum-Answer Booklet must be clearly struck off.
1. (a) Write a short notes on Sea-floor Spreading, Plate Tectonics and Continental Drift Theories.

(b) Explain the stress and strain ellipsoid and rock deformation.

2. Write a note on origin of Earth. Describe the interior of the Earth with a neat sketch. Explain the various methods used in dating rocks.

3. What are linear and planar structures? Explain their genetic significance with neat sketches.

4. Explain the major fluvial, glacial and coastal landforms with suitable figures. How they are significant in sea level change and paleoclimatic studies.
Section-B

5. (a) Explain the morphology, classification and evolutionary history of Brachiopods. Compare and contrast the Brachiopods with bivalves.

5. (b) Describe the standard stratigraphic scale with special reference to evolution of life.

6. Give an account of Microfossils. Add a note on their skeletal material, morphology, age and distribution. How they are significant in petroleum exploration?

7. Explain the Tectonic frame work of India. Give an outline of Indian map and demarcate the various seismic zones.

8. Discuss on various geological systems of Indian sub-continent. Describe the major boundary problems. Explain with examples regarding correlation of Indian formations with their world equivalents.
QCA : 11/II

GEOLOGY : Paper-II

2014

INSTRUCTIONS

(i) All questions carry 2 marks each.
(ii) Questions 2 and 10 are compulsory.
(iii) Questions 1, 2, 3, 4 are required to be attempted.
(iv) Questions 6 and 7 are compulsory.

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1. (a) How do we classify the crystals into 32 classes based on symmetry? Explain with examples.

(b) Describe and discuss on structural classification of silicates.

2. Explain in detail on application of X-rays in crystal studies. Add a note on Twinning and Twin laws.

3. Discuss the importance of optical mineralogy in identification of various rocks.

4. Write a detailed note on physical, chemical and optical properties of rock forming minerals.
5. (a) Explain in detail on sources, favourable conditions and processes involved in formation of oil and gas.

(b) Geology plays a major role in many civil engineering projects. Explain with suitable examples on this statement.

6. Explain in detail on various principal methods of mining, sampling and beneficiation.

7. What are the favourable conditions required for the formation of Coal fields? Enumerate on occurrence and distribution of important coal fields of India.

8. Describe the metallogenic epochs and provinces with examples. What do you mean by mineral conservation and substitution?